

Claims

Device for Supplying a Drive Element

1. Device for supplying a hydraulic medium to a rotatably mounted drive element in a transmission case, the hydraulic medium being routed to a channel in the drive element by way of at least one channel in a coaxially adjacent element which corresponds to the drive element, **characterized in that** the drive element (pulley set 14) is nonrotatably connected to the other element (differential gear case 56) and that the contact connection is at least one unthreaded conduit (114) which is inserted tightly into the two channels (112, 110) and which extends directly from the element (56) to the drive element (14).
2. The device as claimed in claim 1, **wherein** at least one unthreaded conduit (114) extends radially within a roller bearing (46) which is provided between the drive element (14) and the adjacently located element (56).
3. The device as claimed in claims 1 or 2, **wherein** the inner ring (44) of the roller bearing (46) sits on the neck (42) of the drive element (14) and wherein at least one unthreaded conduit (114) extends in a recess (118) of the neck (42).
4. The device as claimed in claims 1 to 3, **wherein** the unthreaded conduit (114) is provided with a radial projection (120) by means of which it is axially held on the front between the inner ring (44) of the roller bearing (46) and the following drive element (14) or can be held without the radial projection by axial contact with the front surfaces.

5. The device as claimed in one or more of claims 1 to 4, **wherein** the unthreaded conduit (114) on the two ends bears gaskets (116) for sealing with the adjoining channels (112, 110) in the drive element (14) and the other element (56).
6. The device as claimed in one or more of claims 1 to 5, **wherein** there are several unthreaded conduits (114) which are distributed over the periphery of the drive element (14) and which correspond to the appropriate channels (112, 110) in the drive element (14) and in the other element (56).
7. The device as claimed in claim 6, **wherein** the annular hydraulic chamber (30, 32) can be supplied using an actuating piston (38) for movement of the drive element (14) by way of the channels (112, 110) and unthreaded conduits (114).
8. The device as claimed in one or more of the preceding claims, **wherein** the nonrotatable connection between the drive element (14) and the other element (56) is spline-teeth (52) which are made radially within the roller bearing (46) on the neck (42) of the drive element (14) and on the annular projection (54) of the other element (56) as an unthreaded connection.
9. The device as claimed in one of the preceding claims, **wherein** the drive element is a driven pulley set (14) of a continuously variable transmission for motor vehicles and the other element is the differential gear case (56) of a torsen differential (16), the output to the axle of the motor vehicle extending through a hollow shaft (18) of the pulley set (14) and the transmission ratio of the pulley set (14) to the looping means being controllable by way of channels (112, 110) and the unthreaded conduits (114).